

**IN THE ABSTRACT:**

Replace the abstract originally provided on the cover sheet of the WIPO publication with the new abstract as follows. A new abstract numbered page 38 is enclosed as the last page of the application following the claims.

**ABSTRACT OF THE DISCLOSURE**

An apparatus for measuring the weight of a preform for optical fibres during a chemical deposition process for the formation of a preform is disclosed. The apparatus has at least one elastic constraint associated with at least one end portion of an elongated element made of a chemical deposition substrate for the formation of the preform, a device for inducing an oscillation, for example axial, on said elongated element, a device for detecting the frequency of oscillation of said elongated element, and a device for calculating the weight of the preform according to the detected frequency of oscillation. Advantageously, the device allows the realisation of a method for measuring the weight of the preform wherein the errors in measurement caused by thermal drift effects, by the axial distribution of the masses on the preform and by loads which are different from the mass of the preform in formation are reduced to below the required precision in measurement.

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